

Amendments to the Claims:

Following is a complete listing of the claims pending in the application, as amended:

1. (Currently Amended) A ~~hybrid computer/human computation method~~ for a computer system to use human assistance in performing tasks, the method comprising:

automatically and under control of a first computer system, causing a task to be performed by,

_____receiving/identifying a first and a second subtask of a the task;

_____identifying one or more required capabilities of a human for performance of the first subtask;

_____the computer system dispatching the first subtask to a remote second computer system of a first human for performance by said first human, the first human identified as being one of one or more humans who have capabilities that satisfy the required capabilities for the first subtask;

_____the computer system receiving a first result from said first human for said first subtask via the second computer system, the first result generated by performance of said first subtask by said first human; and

_____the computer system generating a result for said task based at least in part on said first result.

2. (Currently Amended) The method of claim 1; wherein ~~the method comprises said identifying by the first computer system of the first and second subtasks of the task includes decomposing a the task to be performed into at least a the first and a second subtasks, in lieu of said computer system receiving a first and a second subtask of a task.~~

3. (Currently Amended) The method of claim 1, wherein
the method further comprises the first computer system dispatching said second subtask to a third computer system of a second human for performance by the second human, and the first computer system receiving a second result from the second human via the third computer system for said second subtask; and

the first computer system further bases its generation of the result for said task on said second result.

4. (Currently Amended) The method of claim 3, wherein said task further comprising a third subtask, and the method further comprises the first computer system receiving and performing said third subtask producing a third result; and the first computer system further bases its generation of the result for said task on said third result.

5. (Currently Amended) The method of claim 1, wherein the method further comprises the first computer system performing said second subtask producing a second result; and the first computer system further bases its generation of the result for said task on said second result.

6. (Currently Amended) The method of claim 1, wherein said first human is one of college educated, at most high school educated, at most elementary school educated, and not formally educated.

7. (Original) The method of claim 1, wherein said subtask is one of text, speech, sound, and images related operations.

8. (Original) The method of claim 1, wherein said result is one of text, numbers, tuples, and sound.

9. (Original) The method of claim 1, wherein said task is one of text classification, image comparison, image processing, speech comparison, speech recognition, conversion of speech into text, and comparison of music samples.

10. (Currently Amended) The method of claim 1, wherein said task is associated with ~~one or more multiple~~ attributes related to performance of said task, wherein the attributes including an accuracy attribute, a security attribute, a timeout attribute, a maximum time spent attribute, a maximum cost per task attribute, and a maximum total cost attribute, and wherein the identifying of the one or more humans, the dispatching of the first subtask, and the generating of the result for said task are performed in a manner to reflect the multiple associated attributes.

11. (Original) The method of claim 1, wherein said task is associated with one or more attributes, and said attributes include an accuracy attribute.

12. (Original) The method of claim 11, wherein the method further comprises dispatching said first subtask to $N1 - 1$ additional humans to perform said subtask, and said accuracy comprises a selection of one of majority governs, and at least $N2$ agreed answers, wherein $N2$ and $N1$ are integers, with $N2$ greater than $N1$.

13. (Currently Amended) The method of claim 12, where the method further comprises tracking the accuracy of the additional humans.

14. (Currently Amended) The method of claim 12, where said generation of the result further takes into consideration the accuracy of the additional humans.

15. (Original) The method of claim 1, wherein said task is associated with one or more attributes including a security attribute, and said security attribute comprises a selection of one of a "strict" security level, a "lax" security level, and "no" security level.

16. (Currently Amended) The method of claim 1, wherein said task is associated with one or more attributes, ~~and said attributes~~ that include a "maximum time" attribute specifying a maximum amount of time to be spent by an assigned human to perform said first subtask, and wherein the dispatching of the first subtask to the remote second computer system of the first human includes notifying the first human of the specified maximum amount of time to be spent.

17. (Original) The method of claim 1, wherein said task is associated with one or more attributes, and said attributes include a maximum cost per task attribute.

18. (Original) The method of claim 1, wherein said task is associated with one or more attributes, and said attributes include a maximum total task cost attribute.

19. (Currently Amended) A storage medium having stored therein a plurality of programming instructions that are ~~machine-executable, wherein when executed, said instructions operate to cause a first computing system to perform a method comprising:~~

receiving a first and second subtask of a task, the first subtask for performance by one or more humans and having one or more associated criteria related to performance;

dispatch-sending an indication of the first subtask to a first human-second computing system for performance by said a first human who is identified as being capable of satisfying at least some of the associated criteria for the first subtask; ;

receiving a first result from said first human for-based on performance of said first subtask using the second computing system; ;and

generating a result for said task based at least in part on said first result.

20. (Currently Amended) The storage medium of claim 19, wherein said instructions, when executed, operate to decompose a task to be performed into at least a first and second subtask, ~~in lieu of receiving a first and second subtask of a task.~~

21. (Currently Amended) The storage medium of claim 19, wherein said instructions, when executed, further operate to dispatch an indication of said second subtask to a ~~second human-computing system~~ for performance by ~~the a~~ second human, receive a second result from the second human for said second subtask, and generate the result for said task further based on said second result.

22. (Original) The storage medium of claim 21, wherein said instructions, when executed, further operate to decompose said task into at least said first, said second, and a third

subtask; perform said third subtask producing a third result; and generate the result for said task further based on said third result.

23. (Original) The storage medium of claim 19, wherein said instructions, when executed, further operate to perform said second subtask producing a second result, and generating the result for said task further based on said second result.

24. (Currently Amended) The storage medium of claim 19, wherein said first human is one of college educated, at most high school educated, at most elementary school educated, and not formally educated.

25. (Original) The storage medium of claim 19, wherein said subtask is one of text and speech.

26. (Original) The storage medium of claim 19, wherein said result is one of text, numbers, and tuples.

27. (Original) The storage medium of claim 19, wherein said task is one of text classification, image comparison, image processing, speech comparison, speech recognition, conversion of speech into text, and comparison of music samples.

28. (Currently Amended) The storage medium of claim 19, wherein said task is associated with ~~one or more attributes, wherein the attributes~~ that include an accuracy attribute, a security attribute, and a timeout attribute.

29. (Original) The storage medium of claim 28, wherein said instructions, when executed, further operate to dispatch said first subtask to $N1 - 1$ additional humans to perform said first task, and said accuracy includes one of a majority govern, and at least $N2$ agreed results, wherein $N2$ and $N1$ are integers, with $N1$ greater than $N2$.

30. (Original) The storage medium of claim 28, wherein said security includes one of a strict security level, a lax security level, and no security level.

31. (Original) The storage medium of claim 19, wherein said task is associated with one or more attributes, wherein the attributes include a maximum time to be spent on a task, a maximum cost to incur per task, and a maximum total cost for the task.

32. (Currently Amended) An apparatus comprising:
a storage medium having stored therein a plurality of programming instructions that are machine executable, wherein when executed, said instructions operate to:
_____ receive indications of a first and a second subtask of a task, the first subtask associated with one or more capabilities to be used in performance of the first subtask;
_____ dispatch information about the first subtask to a remote computer system of a first human for performance by said first human of the first subtask, the first human identified as having one or more capabilities that satisfy the associated capabilities for the first subtask;
_____ receive a first result from the remote computer system based on performance of the first subtask by from said first human; for said first subtask, and
_____ generate a result for said task based at least in part on said first result; and
a processor coupled to said storage medium to execute said instructions.

33. (Currently Amended) The apparatus of claim 32, wherein the receiving of the indications of the first and second subtasks of the task includes said instructions, when executed, further operate to decomposing a the task to be performed into at least a the first and a second subtasks, in lieu of said instructions operate to receive a first and a second subtask of a task.

34. (Currently Amended) The apparatus of claim 32, wherein said instructions, when executed, further operate to dispatch information about said second subtask to a distinct remote computer system of a second human for performance by the second human, receive a second result from the second human via the distinct remote computer system for said second subtask, and generate the result for said task further based on said second result.

35. (Original) The apparatus of claim 34, wherein said instructions, when executed, further operate to decompose said task into at least said first, said second, and a third subtask; perform said third subtask producing a third result; and generate the result for said task further based on said third result.

36. (Original) The apparatus of claim 32, wherein said instructions, when executed, further operate to perform said second subtask producing a second result, and generating the result for said task further based on said second result.

37. (Currently Amended) The apparatus of claim 32, wherein said first human is one of college educated, at most high school educated, at most elementary school educated, and not formally educated.

38. (Currently Amended) The apparatus of claim 32, wherein the dispatched information about said first subtask is one of text and includes speech to be reviewed by the first human.

39. (Currently Amended) The apparatus of claim 32, wherein said result is one of ~~text, numbers, and tuples.~~

40. (Currently Amended) The apparatus of claim 32, wherein said task is one of ~~text classification, image comparison, image processing,~~ speech comparison, speech recognition, conversion of speech into text, and comparison of music samples.

41. (Currently Amended) The apparatus of claim 32, wherein said task is associated with ~~one or more attributes, wherein the attributes~~ that include multiple of an accuracy attribute, a security attribute, a timeout attribute, a maximum time for a task attribute, a cost per task attribute, and a maximum task cost attribute.

42. (Currently Amended) The apparatus of claim 41, wherein said instructions, when executed, further operate to dispatch information about the said first subtask to N1--1 multiple additional humans to perform said first subtask, and said accuracy includes one of a majority govern, and at least N2 is based at least in part on receiving agreed results, wherein N2 and N1 are integer number with N1 greater than N2 in agreement from multiple of the humans to whom the information about the first subtask is dispatched.

43. (Original) The apparatus of claim 42, where said instructions, when executed, further track the accuracy of the humans.

44. (Original) The apparatus of claim 42, where said instructions, when executed, further take into consideration the accuracy of the humans when generating the result.

45. (Original) The apparatus of claim 41, wherein said security includes one of a strict security level, a lax security level, and no security.

46. (New) The method of claim 1 wherein the first computer system is a task server system that is part of a distributed hybrid computer/human computation arrangement, and wherein the first human is one of numerous humans remote from the task server system who each use distinct client computing devices to act as nodes of the distributed hybrid computer/human computation system.

47. (New) The method of claim 46 wherein the distributed hybrid computer/human computation arrangement further includes one or more distinct coordinating server computing systems remote from the task server system such that the dispatching of the first subtask by the task server system includes sending information to at least one of the coordinating server computing systems that includes an indication of the first subtask and of the identified required capabilities, and wherein one of the coordinating server computing systems coordinates performance of the first subtask by identifying the first human as having capabilities that satisfy

the identified required capabilities and by sending to the second computer system of the first human an indication of the first subtask to be performed.

48. (New) The method of claim 1 wherein the first computer system is a coordinating server computing system that identifies the first and second subtasks of the task by receiving information about the first and second subtasks from a remote task server system, wherein the coordinating server computing system causes the result to be generated for the task based at least in part on the first result by sending the received first result to the remote task server system, and wherein the first human is one of numerous humans who each use distinct client computing devices to act as nodes available to the coordinating server computing system.

49. (New) The method of claim 1 wherein the dispatching by the first computer system of the first subtask to the remote second computer system is performed using a defined application programming interface ("API").

50. (New) The method of claim 1 wherein the dispatching by the first computer system of the first subtask to the remote second computer system is performed by programmatically sending one or more messages from the first computer system to the remote second computer system.

51. (New) The method of claim 1 wherein the dispatching by the first computer system of the first subtask to the remote second computer system of the first human includes providing information to the first human of a payment associated with performance of the first subtask if the first human chooses to perform the first subtask.

52. (New) The method of claim 1 including, after the receiving from the first human of the first result from the performance of the first subtask, providing to the first human a payment associated with the first subtask.

53. (New) The method of claim 1 wherein the required capabilities of the human for performance of the first subtask include an ability to speak a specified language.

54. (New) The method of claim 1 wherein the required capabilities of the human for performance of the first subtask include an ability to hear.

55. (New) The method of claim 1 wherein the required capabilities of the human for performance of the first subtask include a specified degree of historical accuracy by the human when performing subtasks.